

## PROCESSING TRANSACTIONS USING A SEMANTIC NETWORK

### ABSTRACT

[0056] The disclosed technology can identify indicia associated with different entity types  
5 that interact within an industry, identify one or more relationships (e.g., contractual provisions)  
that can affect interactions between such entity types, and identify transactions associated with  
one or more of the interactions. Further, the identified transactions can be organized into one or  
more transaction sequences. The identified indicia, the one or more identified relationships, and  
the one or more transaction sequences can then be associated to form a semantic network. An  
10 instance of the semantic network can be formed in response to the execution of at least some of  
the transaction sequence and can serve, at least in part, as the basis for processing requests  
associated with the entities. The requests can correspond to interactions associated with the  
entities and may be represented in a natural language format, exhibiting a fixed context and a  
fixed grammar.